

ABSTRACT OF THE DISCLOSURE

"LIGHT-EMITTING DIODE DRIVING CIRCUIT AND
OPTICAL TRANSMISSION MODULE USING THE SAME"

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A light-emitting diode driving circuit according to an embodiment of this invention includes a light-emitting diode, a first current switch circuit connected in series with the light-emitting diode, the first current switch circuit turning on/off a current in accordance with an external input signal input from an input terminal, a pulse current generating circuit connected in parallel with the first current switch circuit, the pulse current generating circuit supplying a pulse current including a pulse width smaller than the pulse width of the external input signal and shaping a leading edge portion of an optical waveform output from the light-emitting diode into a desired optical waveform, and a discharge circuit connected in parallel with the light-emitting diode, the discharge circuit quickly discharging charge stored in the light-emitting diode when the current to the first current switch circuit is turned off.

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Fig. 1